6MD8

Medium-Mu Triple Triode

NOVAR TYPE

For Matrix-Amplifier Applications in Color-TV Receivers

ELECTRICAL

Heater Characteristics and Ratings

Voltage (AC or DC)	6.3 ± 0.6	V
Current at 6.3 V	0.900	A
Maximum heater-cathode voltage (Each unit):		
Heater negative with respect to cathode:		
Peak	200	V
Heater positive with respect to cathode:		
Peak	200	V
DC Component	100	V

Direct Interelectrode Capacitances (Approx.)[a]

	Unit No. 1	*Unit No. 2*	*Unit No. 3*	
Grid to plate	3.0	3.0	3.0	pF
Input: G to (K, H)	3.6	3.6	3.4	pF
Output: P to (K, H)	0.48	0.48	0.36	pF

MECHANICAL

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2.960 in
Maximum Seated Length	2.580 in
Length, Base Seat to Bulb Top (Excluding tip)	2.060 to 2.240 in
Diameter	1.062 to 1.188 in
Bulb	T9

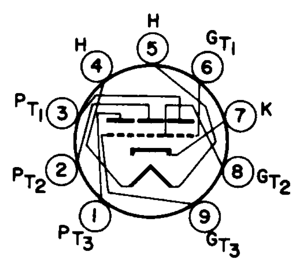
Bases (Alternates)

Small-Button Novar 9-Pin (JEDEC No. E9-75)

Small-Button Novar 9-Pin with Exhaust Tip 9-Pin (JEDEC No. E9-89)

Basing Designation for BOTTOM VIEW 9RQ

- Pin 1 - Plate of Unit No. 3
- Pin 2 - Plate of Unit No. 2
- Pin 3 - Plate of Unit No. 1
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Grid of Unit No. 1
- Pin 7 - Cathode
- Pin 8 - Grid of Unit No. 2
- Pin 9 - Grid of Unit No. 3



CHARACTERISTICS, CLASS A_1 AMPLIFIER

Values are for Each Unit

Plate Voltage	250	V
Grid Voltage	-10.5	V
Amplification Factor	17	
Plate Resistance (Approx.)	5500	Ω
Transconductance	3100	μmho

Plate Current	11.5	mA
Plate Current for grid volts = -14	4	mA
Grid Voltage (Approx.) for plate μA = 50	-23	V

AMPLIFIER — CLASS A$_1$

Values are for Each Unit

Maximum Ratings, Design-Maximum Values

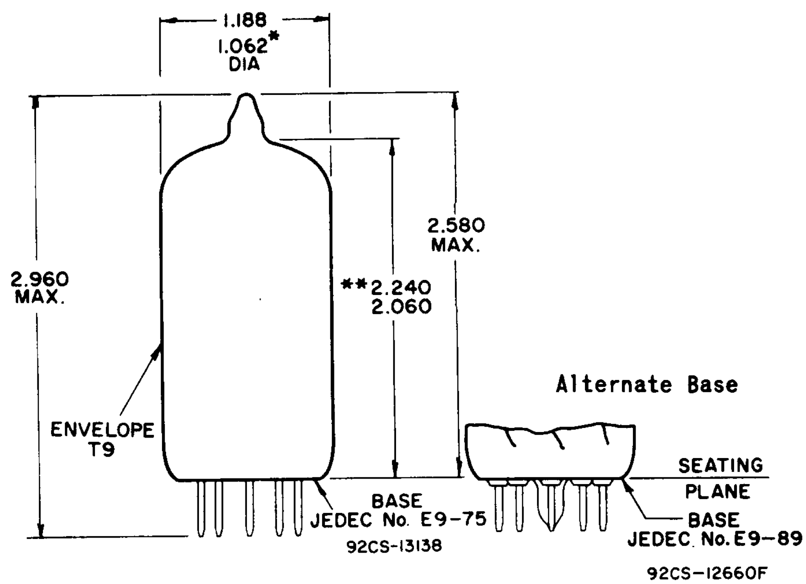
Plate Voltage	330	V
Grid Voltage		
Positive-bias value	0	V
Plate Dissipation	3	W

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance		
For fixed-bias operation	1	MΩ

[a] Without external shield.

DIMENSIONAL OUTLINE



DIMENSIONS IN INCHES

Bottom-exhaust version has the same dimensions for maximum overall length and seated length as the top-exhaust outline shown.

* Applies to the minimum diameter except in the area of the seal.

** Measured from the base seat to bulb-top line as determined by arcing gauge of 0.600" I.D.

Average Plate Characteristics

EACH UNIT

